

Product Specification

Multipoint Control Unit

MCU-1900

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Change History:

Revision	Date	Author	Change List
Version 1.0	2009/06/22	Brian Chen	Initial release

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Reviewed by:	Jonas Yang	Approved by:	Tom Shih

1. PRODUCT DESCRIPTION

Designed for next generation communications networks by the voice and video over IP experts, the PLANET Multipoint Control Unit is the smart solution that offers you an easy way to connect, conference, and collaborate any way you want. In the video conferencing expertise, PLANET MCU multi-function platform is the most flexible and total solution for deploying IP-centric voice, video and Surveillance communications.

PLANET MCU-1900 is a powerful IP multimedia conferencing device, delivering high quality voice and video with IP surveillance capabilities, the platform is a leading solution for deploying real-time voice, video and Surveillance services over IP. Stream your video conference over your intranet or the Internet. The MCU operates with PLANET IP camera to offer viewing at multiple speeds to ensure that everyone can easy video conferencing and watch the IP camera without difficulty.

An easy conferencing start with preset configurations of unified, voice, video, and Surveillance conferencing, the MCU-1900 offers up to 9 video , 60 audio concurrent calls, and up to 200 user registrations, it's ideal for the small to medium-size enterprise markets.

2. PRODUCT FEATURES

- Multi-Codec for H.263 / H.263p / MPEG-4 compression
- Support Video / Voice Control service
- Simultaneous Voice calls: 60 concurrent calls
- Simultaneous Video calls: 12 concurrent calls
- Support IP-Surveillance Hosting service
- Call Detailed Record (CDR)
- User Management via Web Browsers
- Built-in SIP Proxy Server Following RFC-3261
- Asterisk Compatible IP PBX
- Recording MCU room's Video/Voice to File
- Video MCU screen format : 1:1, 1:4, 1: 6, 1:7, 1:8, 1:9
- Call Transfer / Call Hold / Call Park

3. PRODUCT SPECIFICATIONS

3.1 Main Component

CPU: Quad-Core Intel Xeon 2.0GHz

RAM: 1GB

3.2 Functional Specifications

Product	Multipoint Control unit
Model	MCU-1900
Hardware	
LAN	2 RJ-45 (10/100/1000Base-TX, Auto-Sensing/Switching)
Standards and Protocol	
Call control	SIP 2.0 (RFC3261) , SDP (RFC 2327), Symmetric RTP
SIP Registration	50 registrations
Voice Concurrent Calls	60 voice calls
Video Concurrent Calls	12 video calls
Voice Room Number	9
Video Room Number	3
Voice CODEC Support	G.711u, G.723, G.729
Video	Mpeg4, H.263, H.263p
Voice Processing	DTMF detection and generation In-Band and Out-of-Band (RFC 2833), (SIP INFO) Supports password authentication using MD5 digest
PBX Features	Voicemail Support (VM) Call Detailed Record (CDR) User Management via Web Browsers Web Firmware Upgrade Backup and Restore Configuration file Displays Registered User's Status: Unregistered / Registered / Caller / Callee
Call Features	Caller ID Call Hold Call Transfer Call Forward (Always, Busy, No Answer) Call Pickup Call Park Music/Video on Hold Three-way voice conference with feature phones (VIP-254T series, VIP-155PT / 255PT / 351PT / ICF-1600 and ATA series: VIP-156 / 157, ATA-150 / 150S)
MCU Room Features	MCU Room Configuration MCU status display on Web Browser Mute / Kick function MCU Voice/Video Recording
Video MCU Display Division	1, 4, 6, 7, 8, 9
Internet Sharing	
Protocol	TCP/IP, UDP/RTP/RTCP, HTTP, ICMP, ARP, NAT, DHCP, DNS
Connection Type	Static IP
Management	HTTP Web Browser

LED Indications	System: 1, PWR LAN: 2, LNK/ACT System ID: 1 System Fault: 1
Hardware Specification	
CPU Processor	Quad-Core Intel Xeon 2.0GHz
RAM	1GB
Built-in Storage Device	1 x DVD Rom, 1 x 160GB HDD
Ethernet Interface	2 x RJ-45 10/100/1000Base-TX
Input/Output Interface	2 x PS2 Mouse/Keyboard, 2 x USB 2.0, 1 x Serial, 1 x VGA
Form Factor	1U, 19" Rack Mountable
EMC/EMI	CE, FCC Class B
Environment	
Dimension (W x D x H)	428 x 442 x 44.4 mm
Operating Temperature	0~40 degree C, 0~90% humidity
Power Source	AC 100~240V, 50-60Hz
Power Requirement	300W
Safety	UL, CB, BSMI
EMC/EMI	CE Class A, FCC Class A, BSMI Class B

3.3 Physical Specifications

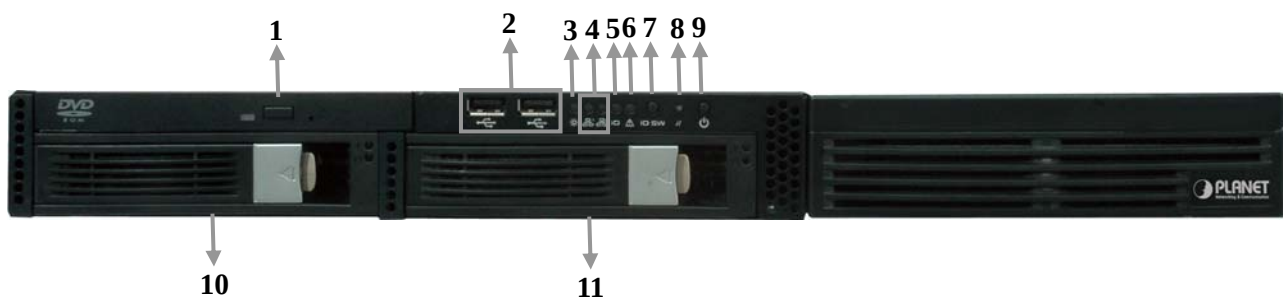
Dimensions

428 x 442 x 44.4 mm (W x D x H)

Weight

15 kg

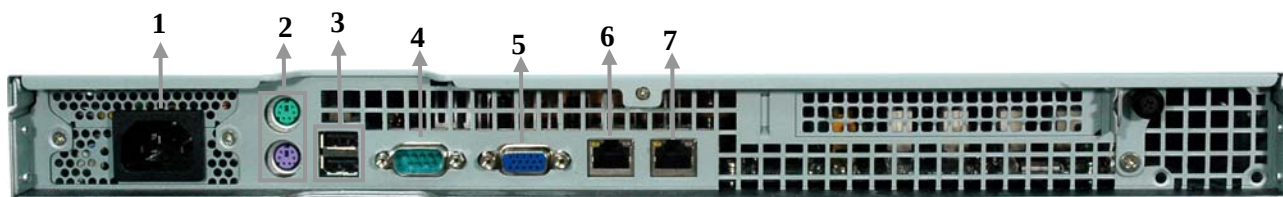
Front panel



Item	Description
1 DVD Rom	Slim DVD-Rom device.
2 USB Port	The USB port allows users to connect an external USB device to the unit, such as a USB ThumbDrive© or a USB mouse.
3 Power LED	It lights up when power source is connected.
4 Network LED	1. The green LED is on when there is an active connection on the LAN port. 2. This LED flashes when transmitting or receiving activities to or from the system are detected.
5 System ID LED	Reserve for advanced system faculty.

6	System Alert LED	Reserve for advanced system faculty.
7	System ID button	Reserve for advanced system faculty.
8	System Reset button	Press this button once to reboot the system.
9	Power button	Press this button once to shut down the system, and then once to switch on.
10	System HDD Removable Rack	The system HDD installed in this rack, and we don't suggest removing it for making sure the system could work properly.
11	HDD Removable Rack	This HDD rack leaves unused and it also useless to expand HDD.

Rear panel



Item		Description
1	Power Jack	Connect the power supply cord shipped with the system. Use of other power supply cords may cause overloading.
2	PS/2 Keyboard/Mouse Connector	The PS/2 allow user to connect keyboard and mouse for operating the system.
3	USB Port	The USB port allows users to connect an external USB device to the unit, such as a USB ThumbDrive© or a USB mouse.
4	Serial Port	The serial port for sending and receiving signals.
5	VGA Port	A VGA output connector is offered for connecting to a VGA monitor.
6	LAN Jack (Eth0)	These RJ-45 ports support auto negotiating Gigabit Ethernet 10/100/1000Base-TX networks. That allows your system to be connected to an Internet Access device, e.g. router, cable modem, ADSL modem, through a CAT.5 twisted pair Ethernet cable.
7	LAN Jack (Eth1)	

3.4 Environmental Specifications

Operating Temperature: 0 ~ 40 degree C
 Operating Humidity: 0 ~ 90% (non-condensing)

3.5 Electrical Specifications

Input Voltage: 100~240V AC, 50/60Hz, Max. 300W

3.6 Regulatory Compliance

Safety: UL, CB, BSMI

EMC: FCC Class A, CE Class A, BSMI

3.7 Basic Packaging

1 x MCU-1900

1 x Quick installation guide

1 x User's manual CD

1 x Power cord

2 x Rail

2 x L-shaped bracket

3.8 Packaging Information

Dimension

610 x 550 x 190 mm (W x D x H)

Weight

22 kg